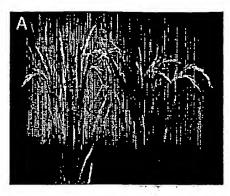
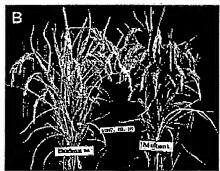
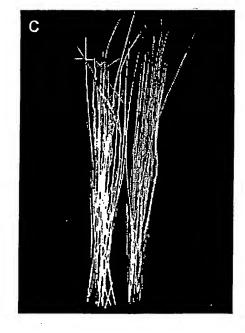
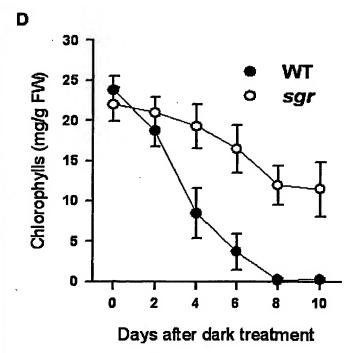


2/21 FIG. 2









3/21 FIG. 3

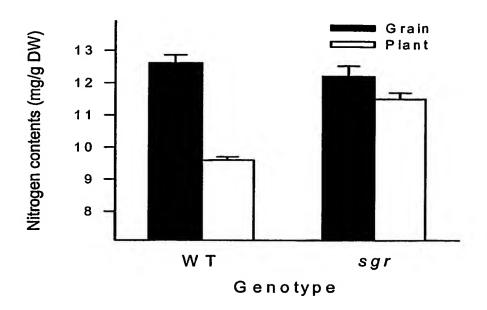
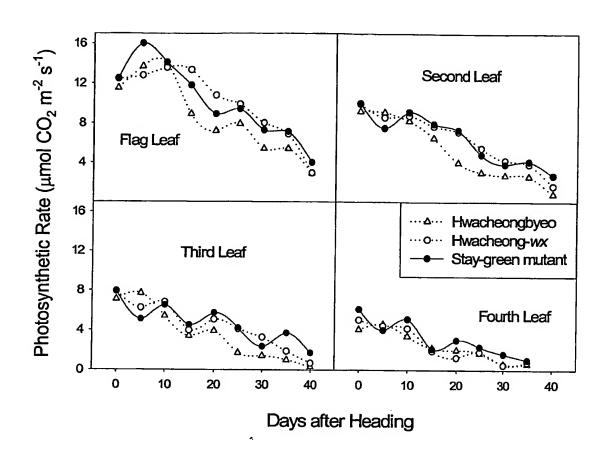
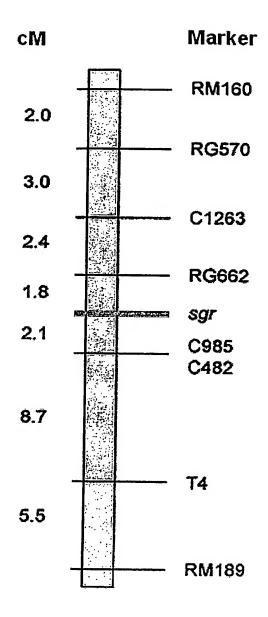


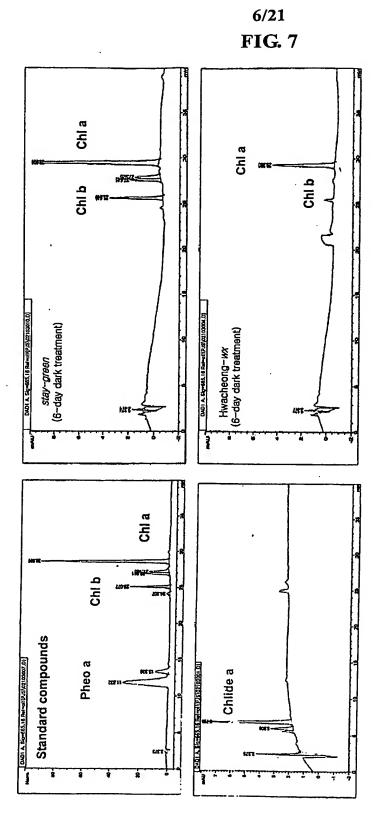
FIG. 4 ··· • Hwacheongbyeo ··· • • Hwacheong-wx Stay-green mutant af 0.0.0 15 10 Chlorophylls (mg/g FW) Second Leaf Flag Leaf 5 0 15 Fourth Leaf 10 5 Third Leaf 8:8:0 10 70 0 10 40 20 30 40 30 50 Days after Heading

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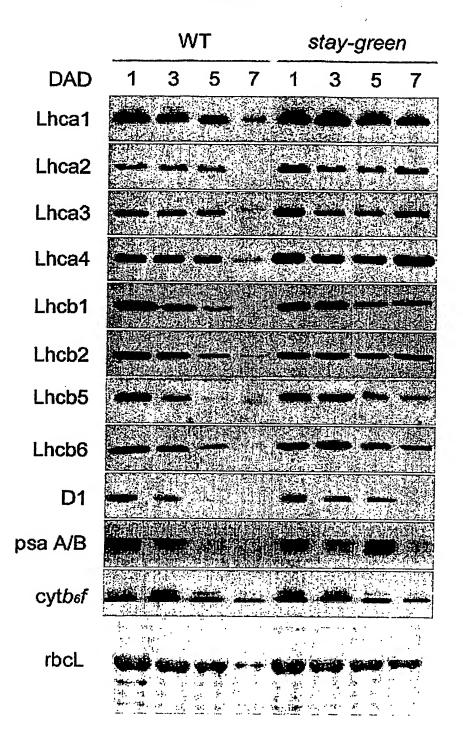
5/21 FIG. 6





HPLC Running Time (min)

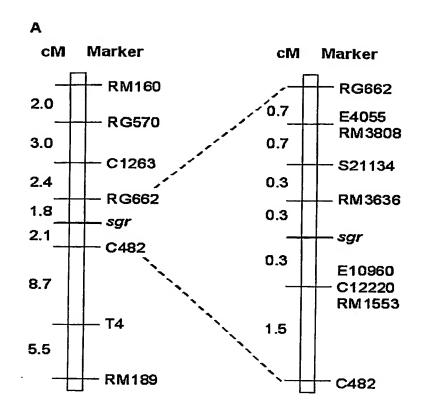
7/21 FIG. 8

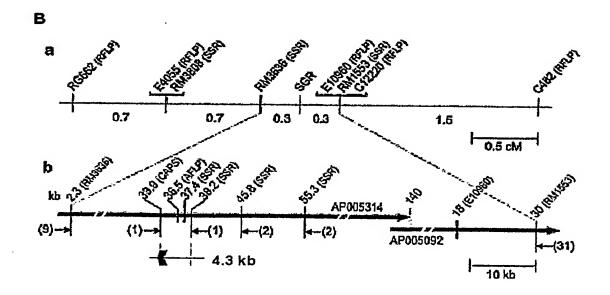


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9/21 FIG. 10





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FIG. 11

| AP005314 sgr | 289 ctggcggtgtcgcacaccatcaaccgggcgcagctgcaggggtggtacaacaagctgcag 348 |
|---|--|
| AP005314 sgr F ₂ (844) | 289 ctggcggtgstacaacaaccatcaaccgggcgcagctgcaggggtggtacaacaagctgcag 348 |
| AP005314 Hwacheong-wx (japonica) | 289 ctsscsststcscaccatcaaccssscscasctscassssststaacaagctscas 348 |
| AP005314 Milyang23 (indica) | 289 ctggcggtgtcgcacaccatcaaccgggcgcagctgcaggggtggtacaacaagctgcag 348 |

FIG. 12

- 1 MAAATSTMSLLPPITQQQRWHAADSLVVLASRCHNSRRRRRCRYVVPRAR 50 chloroplast-targeting signal peptide
- (gtg)
 51 LFGPAIFEASKLKVLFLGVDEEKHQHPGKLPRTYTLTHSDVTARLTLAVS 100

 M
 (atg)
 (atg)
 (missense mutation)
- 101 HTINRAQLQGWYNKLQRDEVVAEWKKVQGHMSLHVHCHISGGHVLLDLIA 150
- 151 GLRYYIFRKELPVVLKAFVHGDGNLFSRHPELEEATVWVYFHSNLPRFNR 200
- 201 VECWGPLRDAGAPPEEDDAVAAAAAEEAAAEQMPAAGEWPRRCPGQCDCC 250
- 251 FPPYSLIPWPHQHDVAAADGQPQQ 274

11/21 FIG. 13

Darkness (days)
0 2 4 6 8

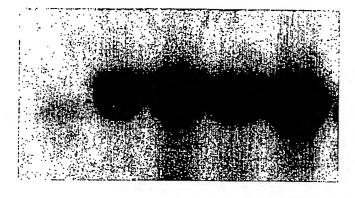


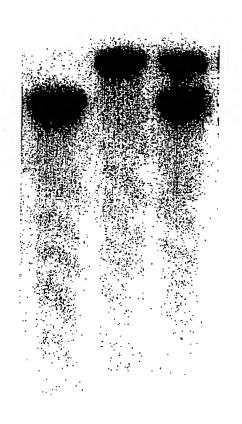
FIG. 14

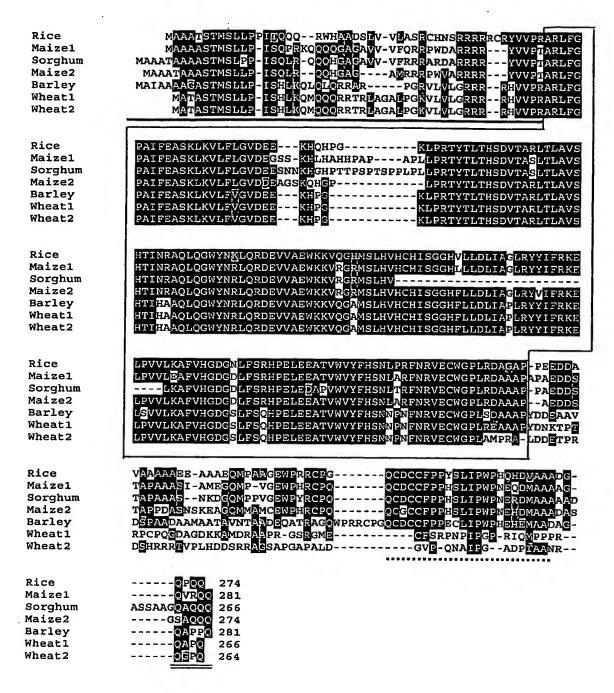
2-d dark treatment control H₂O 6-BA ethephon (100μM) (150μM)

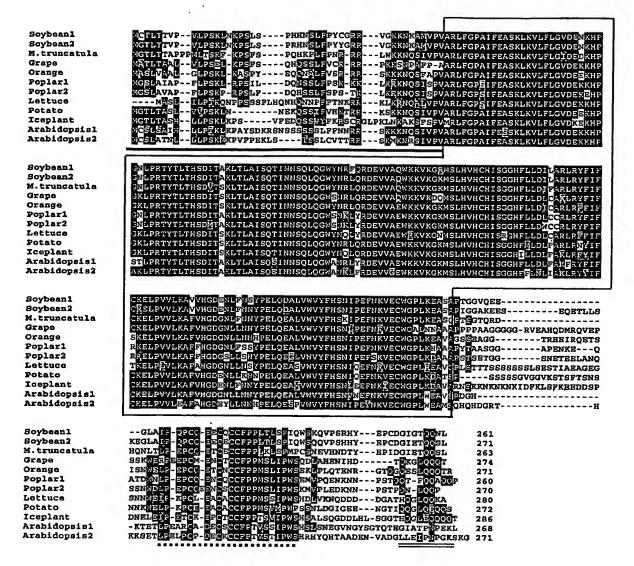


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12/21 FIG. 15 sgr M23 F₁ J I H

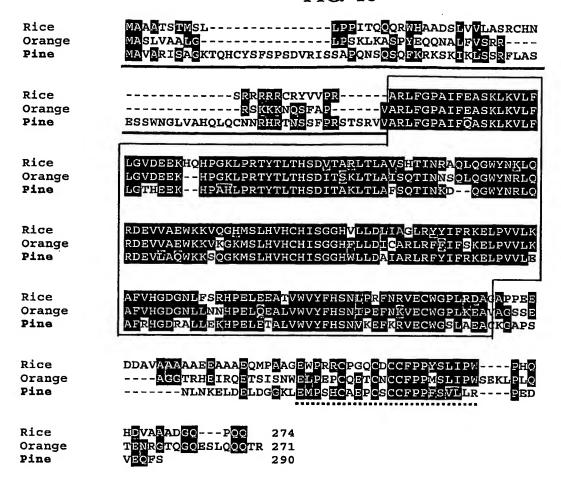




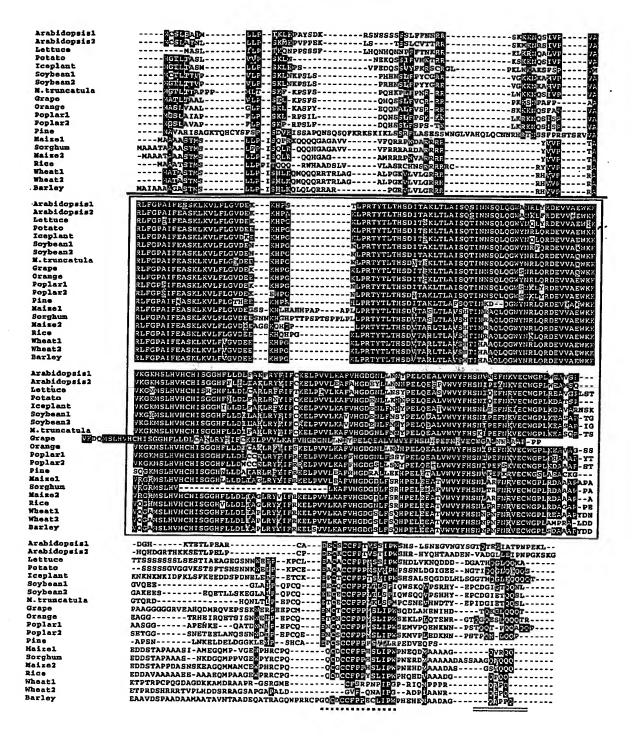


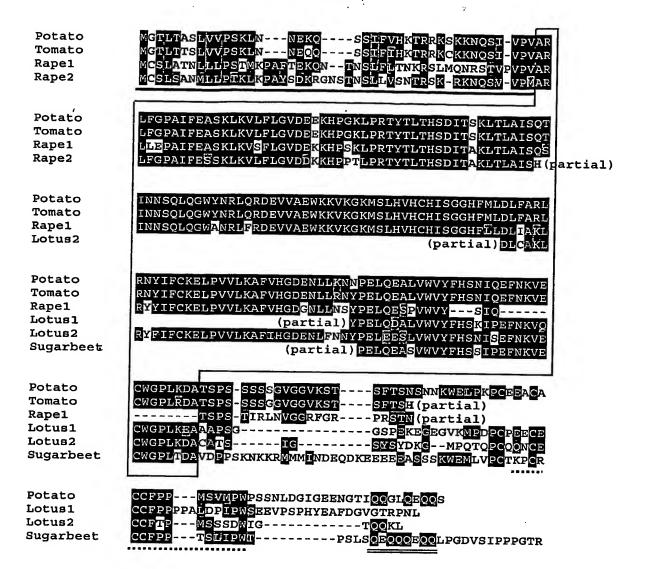
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FIG. 18



16/21 FIG. 19





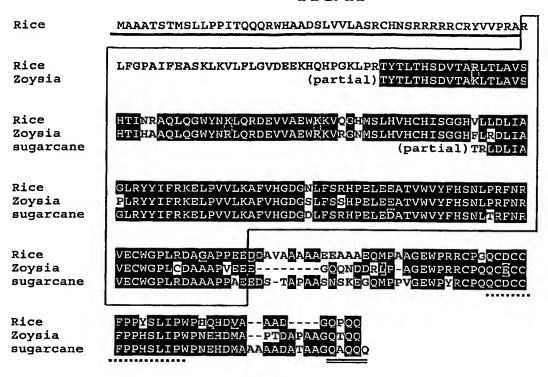


FIG. 22

| Pine | MAVARISAGKTQHCYSFSPSDVRISSAPQNSQSQFKRKSKIKLSSRFLAS |
|----------------|--|
| Pine | ESSWNGLVAHQLQCNNRHRTNSSFPRSTSRVVARLFGPAIFQASKLKVLF |
| Pine Spruce | LGTHEEKHPAHLPRTYTLTHSDITAKLTLAFSQTINKD QGWYNRLQRD (partial) INKDQLQGWYNRLQRD |
| Pine | EVLAQWKKSQGKMSLHVHCHISGGHWLLDAIARLRFYIFRKELPVVLEAF |
| Spruce | EVLAQWKKSQGKMSLHVHCHISGGHWLLDAIARLRFYIFRKELPVVLEAF |
| Pine | RHGDRALLEKHPELETALVWVYFHSNVKEFKRVECWGSLAEACKGAPSNL |
| Spruce | RHGDRALLDKHPELETALVWVYFHSNVKEFKRVECWGSLAEACKGAPSNL |
| Pine | nkeld-eldggklempshcæppcsccfppfsvllrpedvegfs |
| Spruce | ekeldeefngeklempshcsepcnccfppfsvllrpedæegfi |

19/21 FIG. 23

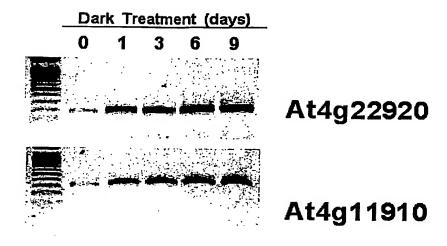
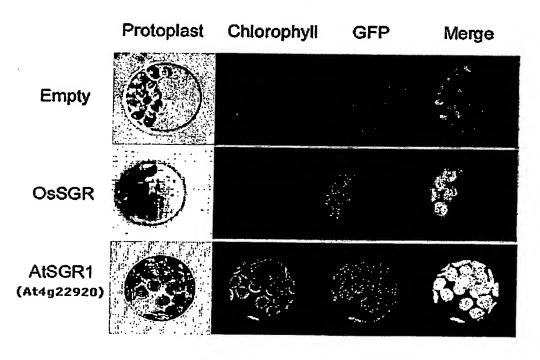
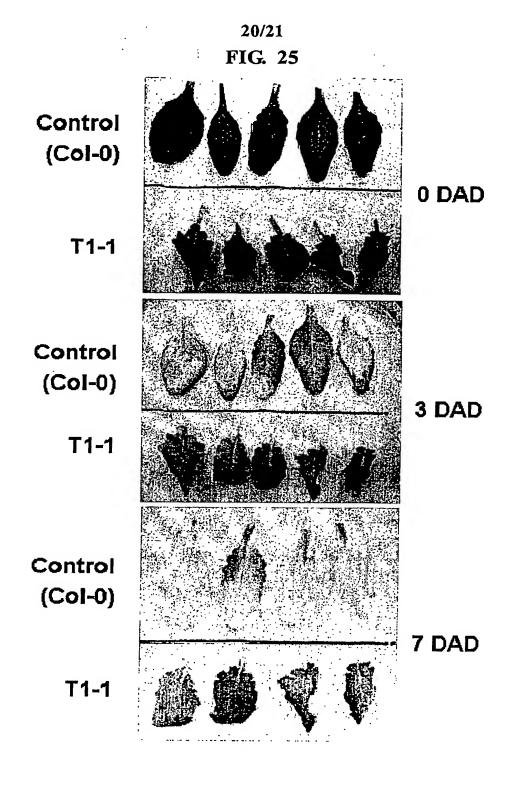
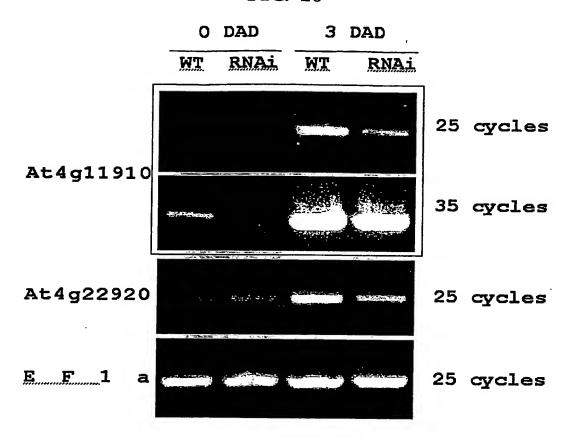


FIG. 24





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